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## In the Claims:

1. (CURRENTLY AMENDED) A photometric measurement flow cell comprising: a cell body having a first end and a second end;

a fluidic channel allowing the passage of fluids, contained within said cell body; an element holder contained within said first end of said cell body wherein said element

holder has a substantially planar sealing surface for receiving an element said substantially planar sealing surface of said element to be fixed in a non-adjustable manner;

a non-adjustable stepped element having a stem and a base, said stem having an end surface protruding into said fluidic channel creating a fixed, nonadjustable fluidic measurement pathlength and said base having a substantially planar sealing surface, said substantially planar sealing surface of said base fixedly abutting said substantially planar sealing surface of said non-adjustable stepped element to be sealably secured in a non-adjustable manner in said element holder;

said non-adjustable stepped element contained within said element holder and sealed within said cell body by a sealing gasket positioned between said substantially planar sealing surface of said non-adjustable stepped element and said substantially planar sealing surface of said cell body whereupon pressure exerted against said substantially planar sealing surface of said non-adjustable stepped element and said substantially planar sealing surface of said cell body cause said non-adjustable stepped element to be fixed and reliably sealed in a non-adjustable manner within said cell body with said stem protruding into said fluidic channel creating said fixed, non-adjustable fluidic measurement pathlength.

- 2. (PREVIOUSLY AMENDED) The photometric measurement flow cell according to claim 1, wherein said non-adjustable stepped element is formed of fused silica glass.
- 3. (PREVIOUSLY AMENDED) The photometric measurement flow cell according to claim 1, wherein said non-adjustable stepped element is formed of plastic.

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- 4. (PREVIOUSLY AMENDED) The photometric measurement flow cell according to claim 1, wherein said non-adjustable stepped element is formed of crown optical glass.
- 5. (PREVIOUSLY AMENDED) The photometric measurement flow cell according to claim 1, wherein said non-adjustable stepped element is formed of flint optical glass.
- 6. (PREVIOUSLY AMENDED) The photometric measurement flow cell according to claim 1, wherein said non-adjustable stepped element is formed of BK7 optical glass.
- 7. (PREVIOUSLY AMENDED) The photometric measurement flow cell according to claim 1, wherein said non-adjustable stepped element is formed of sapphire optical glass.
- 8. (ORIGINAL) The photometric measurement flow cell according to claim 1, wherein said end surface is a plano optical surface.
- 9. (ORIGINAL) The photometric measurement flow cell according to claim 1, wherein said end surface is a spherical optical surface.
- 10. (ORIGINAL) The photometric measurement flow cell according to claim 1, wherein said end surface is an aspherical optical surface.
- 11. (PREVIOUSLY AMENDED) The photometric measurement flow cell according to claim 1, wherein said non-adjustable stepped element is circular in cross-section.
- 12. (PREVIOUSLY AMENDED) The photometric measurement flow cell according to claim 1, wherein said non-adjustable stepped element is a geometric configuration selected from the group consisting of a square, rectangular, octagonal, and hexagonal.
- 13. (PREVIOUSLY AMENDED) The photometric measurement flow cell according to claim 1, wherein said element holder contains within it an entrance lens.

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14. (ORIGINAL) The photometric measurement flow cell according to claim 1, wherein within said cell body is a lens holder containing an exit lens.

Claims 15-21 (CANCELED)

22. (CURRENTLY AMENDED) A method of creating an accurate fixed measurement path-length within a flow cell, which comprises:

providing a cell body having a fluidic channel allowing the passage of fluids within said cell body;

configuring an element holder contained within said cell body wherein said element holder has a substantially planar sealing surface for receiving an element said substantially planar sealing surface of said element to be fixed in a non-adjustable manner;

selecting a non-adjustable stepped element having a stem and a base, said stem having an end surface protruding into said fluidic channel creating a fixed, non-adjustable fluidic measurement pathlength, said base having a substantially planar sealing surface, said substantially planar sealing surface of said base fixedly abutting said substantially planar sealing surface of said non-adjustable stepped element to be sealably secured in a non-adjustable manner in said element holder, a length of said stem being selected to increase or decrease said fixed, non adjustable fluidic measurement pathlength; and

fastening said non-adjustable stepped element within said element holder with a sealing gasket positioned between said substantially planar sealing surface of said non-adjustable stepped element and said substantially planar sealing surface of said cell body whereupon pressure exerted against said substantially planar sealing surface of said non-adjustable stepped element and said substantially planar sealing surface of said cell body cause said non-adjustable stepped element to be fixed and reliably sealed in a non-adjustable manner within said cell body with said stem protruding into said fluidic channel creating said fixed, non-adjustable fluidic measurement pathlength.